

Form PTO-1449

U.S. Department of Commerce, Patent and Trademark Office

Atty Docket No.

BDG005-1-4

Serial No.

10/655,819

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant

Cheng-Lien Chiang

Filing Date

September 5, 2003

Group Art Unit

2812

U.S. Patent Documents

*Examiner's Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA	5,949,135	09/1999	Washida et al.	257	685	
AB	5,973,388	10/1999	Chew et al.	257	676	
AC						
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Foreign Patent Documents

							Translation	
	Document	Date	Country	Class	Subclass		Yes	No
AN								
AO								

Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	
AQ	
Examiner	Date Considered

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<i>JA</i>	AA	5,440,231	08/1995	Sugai	324	158.1	
	AB	6,114,770	09/2000	Akram et al.	257	784	
<i>JA</i>	AC	6,353,265	03/2002	Michii	257	777	
<i>JA</i>	AD	6,369,595	04/2002	Farnworth et al.	324	755	
	AE						
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	AN							
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	AQ	
Examiner <i>Scott H. [Signature]</i>	Date Considered <i>11/15/05</i>	

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*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
OA	AA 4,971,930	11/1990	Fusaroli et al.	437	217	
	AB 5,530,282	06/1996	Tsuji	257	666	
	AC 6,512,219	01/2003	Webster et al.	250	208.1	
	AD					
	AE					
	AF					
	AG					
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	AL					
	AM					

Foreign Patent Documents

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	AN							
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		Filing Date	Group Art Unit
		September 5, 2003	

U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>[Signature]</i>	AA	6,335,565	01/01/02	Miyamoto et al.	257	686
	AB					
	AC					
	AD					
	AE					
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	AG					
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Foreign Patent Documents

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	Document	Date	Country	Class	Subclass		Yes	No
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	AQ	

Examiner <i>[Signature]</i>	Date Considered <i>11/15/05</i>
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10/6 J5819

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Group Art Unit

2891

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
OK	AA	5,081,520	01/1992	Yoshii et al.	357	80	
	AB	5,241,133	08/1993	Mullen, III et al.	174	52.4	
	AC	5,394,303	02/28/95	Yamaji	361	749	
	AD	5,665,652	09/1997	Shimizu	438	127	
	AE	5,674,785	10/1997	Akram et al.	437	217	
	AF	5,744,827	04/28/98	Jeong et al.	257	686	
	AG	5,744,859	04/1998	Ouchida	257	668	
	AH	5,804,771	09/1998	McMahon et al.	174	255	
	AI	5,811,879	09/1998	Akram	257	723	
	AJ	5,949,655	09/1999	Glenn	361	783	
	AK	6,013,877	01/2000	Degani et al.	174	264	
	AL	6,143,588	11/2000	Glenn	438	116	
	AM	6,159,770	12/2000	Tetaka et al.	438	112	
	AN	6,274,927	08/2001	Glenn	257	680	

Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Crowley, "Socket Developments for CSP and FBGA Packages," Chip Scale Review, May 1998, pp. 37-40.
	AP	Forster, "Socket Challenges for Chip-Scale Packages," Chip Scale Review, May 1998, pp. 43-47.
✓	AQ	Amagai, "Chip-Scale Packages for Center-Pad Memory Devices," Chip Scale Review, May 1998, pp. 68-77.
OK	AR	Vandeveldt et al., "The PSGA, a Lead-Free CSP for High Performance & High Reliable Packaging," Proceedings of the 2001 International Symposium on Microelectronics, October 9, 2001, pp. 260-265.

Examiner

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11/15/05

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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Cheng-Lien Chiang	
		Filing Date	Group Art Unit 2891
*Examiner Initial	Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)		
07	AA	U.S. Application Serial No. 09/865,367, filed May 24, 2001, entitled "Semiconductor Chip Assembly With Simultaneously Electroplated Contact Terminal and Connection Joint"	
	AB	U.S. Application Serial No. 09/864,555, filed May 24, 2001, entitled "Semiconductor Chip Assembly with Simultaneously Electrolessly Plated Contact Terminal and Connection Joint"	
	AC	U.S. Application Serial No. 09/864,773, filed May 24, 2001, entitled "Semiconductor Chip Assembly With Ball Bond Connection Joint"	
	AD	U.S. Application Serial No. 09/878,649 filed June 11, 2001, entitled "Method of Making a Semiconductor Chip Assembly with a Conductive Trace Subtractively Formed Before and After Chip Attachment"	
	AE	U.S. Application Serial No. 09/878,626 filed June 11, 2001, entitled "Method of Connecting a Conductive Trace to a Semiconductor Chip"	
	AF	U.S. Application Serial No. 09/917,339 filed July 27, 2001, entitled "Method of Connecting a Bumped Compliant Conductive Trace to a Semiconductor Chip"	
	AG	U.S. Application Serial No. 09/927,216 filed August 10, 2001, entitled "Semiconductor Chip Assembly with Hardened Connection Joint"	
	AH	U.S. Application Serial No. 09/939,140 filed August 24, 2001, entitled "Semiconductor Chip Assembly with Interlocked Conductive Trace"	
	AI	U.S. Application Serial No. 09/962,754 filed September 24, 2001, entitled "Method of Connecting a Conductive Trace and an Insulative Base to a Semiconductor Chip"	
	AJ	U.S. Application Serial No. 09/972,796 filed October 6, 2001, entitled "Method of Connecting a Bumped Compliant Conductive Trace and an Insulative Base to a Semiconductor Chip"	
	AK	U.S. Application Serial No. 09/997,973 filed November 29, 2001, entitled "Method of Connecting a Bumped Conductive Trace to a Semiconductor Chip"	
Examiner	Date Considered 11/15/85		
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Form PTO-1449 U.S. Department of Commerce, Patent and Trademark Office					Atty Docket No. BDG005-1-4		Serial No. 10/655819			
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)					Applicant Cheng-Lien Chiang					
					Filing Date		Group Art Unit 2891			
U.S. Patent Documents										
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate			
	AA	5,149,958	09/1992	Hallenbeck et al.	250	216				
	AB	5,264,714	11/1993	Nakaya et al.	257	78				
	AC	5,405,809	04/1995	Nakamura et al.	437	209				
	AD	5,834,835	11/1998	Maekawa	257	680				
	AE	5,834,843	11/1998	Mori et al.	257	723				
	AF	5,859,471	01/1999	Kuraishi et al.	257	666				
	AG	5,893,723	04/1999	Yamanaka	438	65				
	AH	6,265,770	07/2001	Uchiyama	257	698				
	AI									
	AJ									
	AK									
	AL									
	AM									
Foreign Patent Documents										
							Translation			
		Document	Date	Country	Class	Subclass	Yes	No		
	AN	JP-57100761	06/1982	Japan	H01L	27/14		X		
	AO									
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)										
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2891

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	3,627,901	12/1971	Happ	174	52 PE	
	AB	3,678,385	07/1972	Bruner	324	158 F	
	AC	3,930,114	12/1975	Hodge	174	52 FP	
	AD	4,506,238	03/1985	Endoh et al.	333	138	
	AE	5,157,480	10/1992	McShane et al.	357	74	
	AF	5,207,102	05/1993	Takahashi et al.	73	727	
	AG	5,436,500	07/1995	Park et al.	257	696	
	AH	5,677,566	10/1997	King et al.	257	666	
	AI	5,866,939	02/1999	Shin et al.	257	666	
	AJ	5,894,107	04/1999	Lee et al.	174	52.2	
	AK	5,951,804	09/1999	Kweon et al.	156	244.12	
	AL	6,114,770	09/2000	Akram et al.	257	784	
	AM	6,130,116	10/2000	Smith et al.	438	127	
	AN	6,232,152	05/2001	DiStefano et al.	438	124	
	AO	6,297,543	10/2001	Hong et al.	257	666	
	AP	6,303,997	10/2001	Lee	257	778	
	AQ	6,326,700	12/2001	Bai et al.	257	790	
	AR	6,445,077	09/2002	Choi et al.	257	786	
	AS	6,455,356	09/2002	Glenn et al.	438	123	
	AT	6,468,836	10/2002	DiStefano et al.	438	128	

Foreign Patent Documents

							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AU	JP-61128897	05/1989	Japan	B42D	15/02		X

Examiner

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11/15/05

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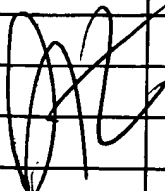
Cheng-Lien Chiang

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Group Art Unit

2891

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	6,001,671	12/1999	Fjelstad	438	112	
	AB	6,025,650	02/2000	Tsui et al.	257	786	
	AC	6,281,568	08/2001	Glenn et al.	257	684	
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	AN							
	AO							

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					Filing Date		Group Art Unit 2891	
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA	6,198,171	03/2001	Huang et al.	257	787		
	AB	6,218,728	04/2001	Kimura	257	693		
	AC							
	AD							
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Foreign Patent Documents								
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		Document	Date	Country	Class	Subclass	Yes	No
	AN	JP-06097352	04/1994	Japan	H01L	23/50	X	
	AO							
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